SAMSUNG

COLOR MONITOR

SyncMaster 17GLi (CMG7377L)
CMG7387L

SAMTRON
SC 728FXL
Dell
737
AST 7L

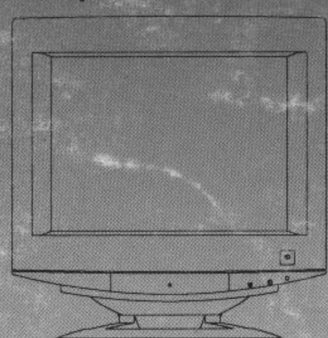
PARTS CODE NO. QTY.
SM-CMG7377L 1 D06H1/3

SERVICE Manual

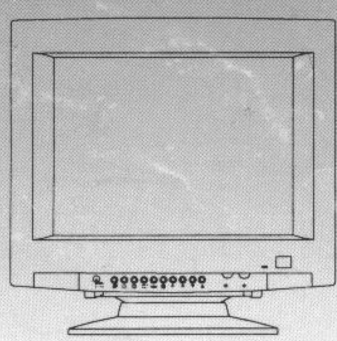
HP 2818A
ULTRA VGA 1280

COLOR MONITOR

SyncMaster 17GLi

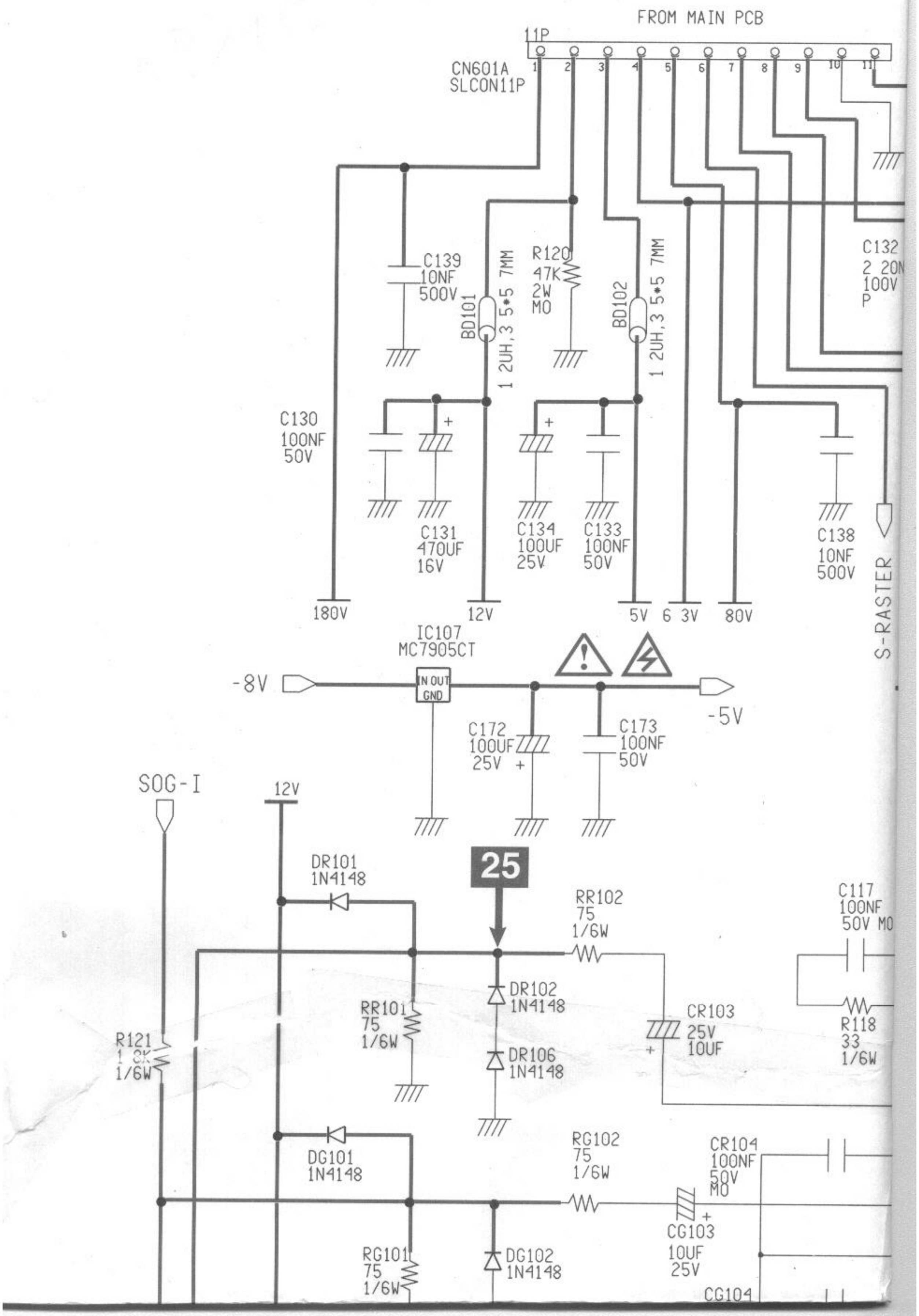


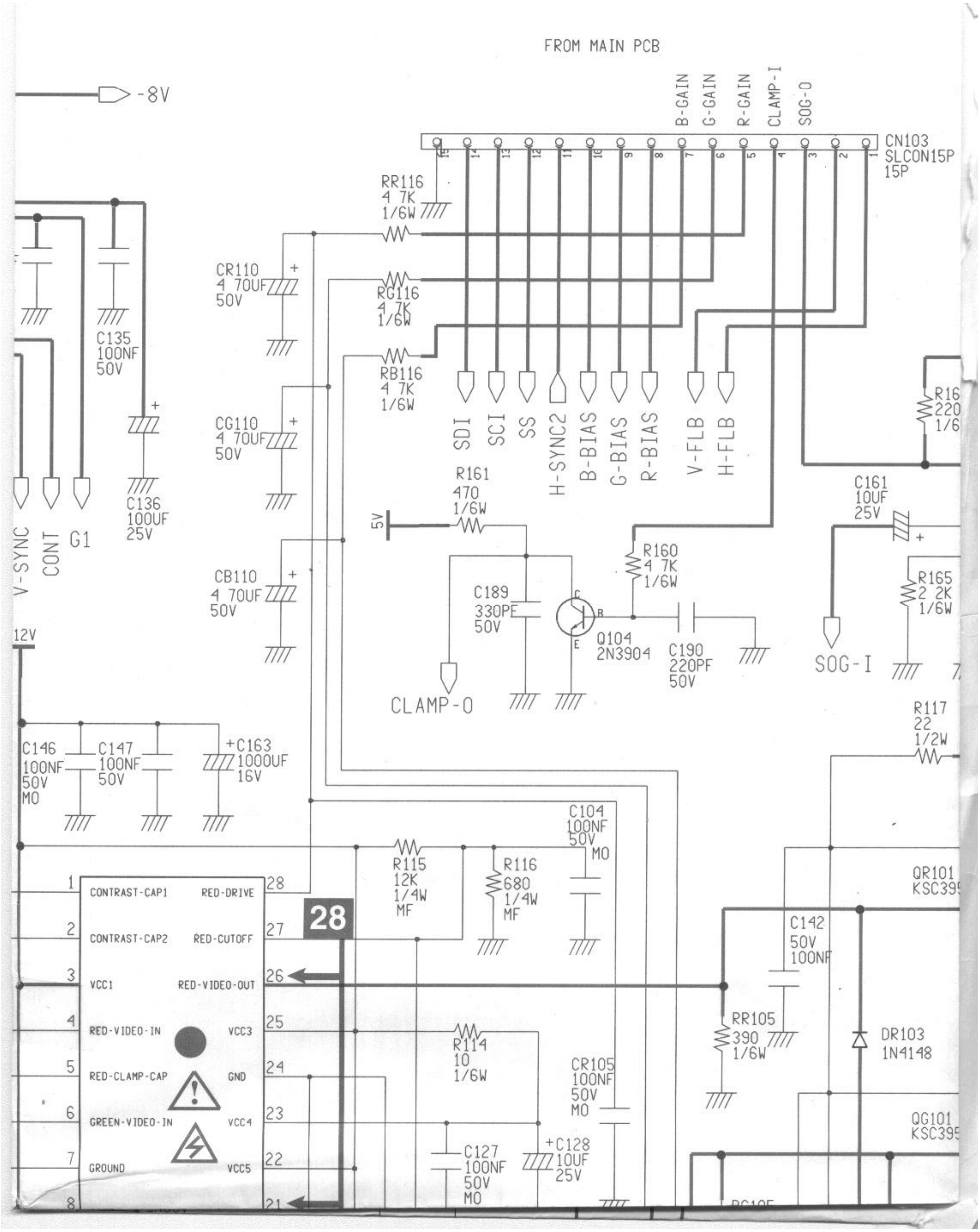
CMG7387L



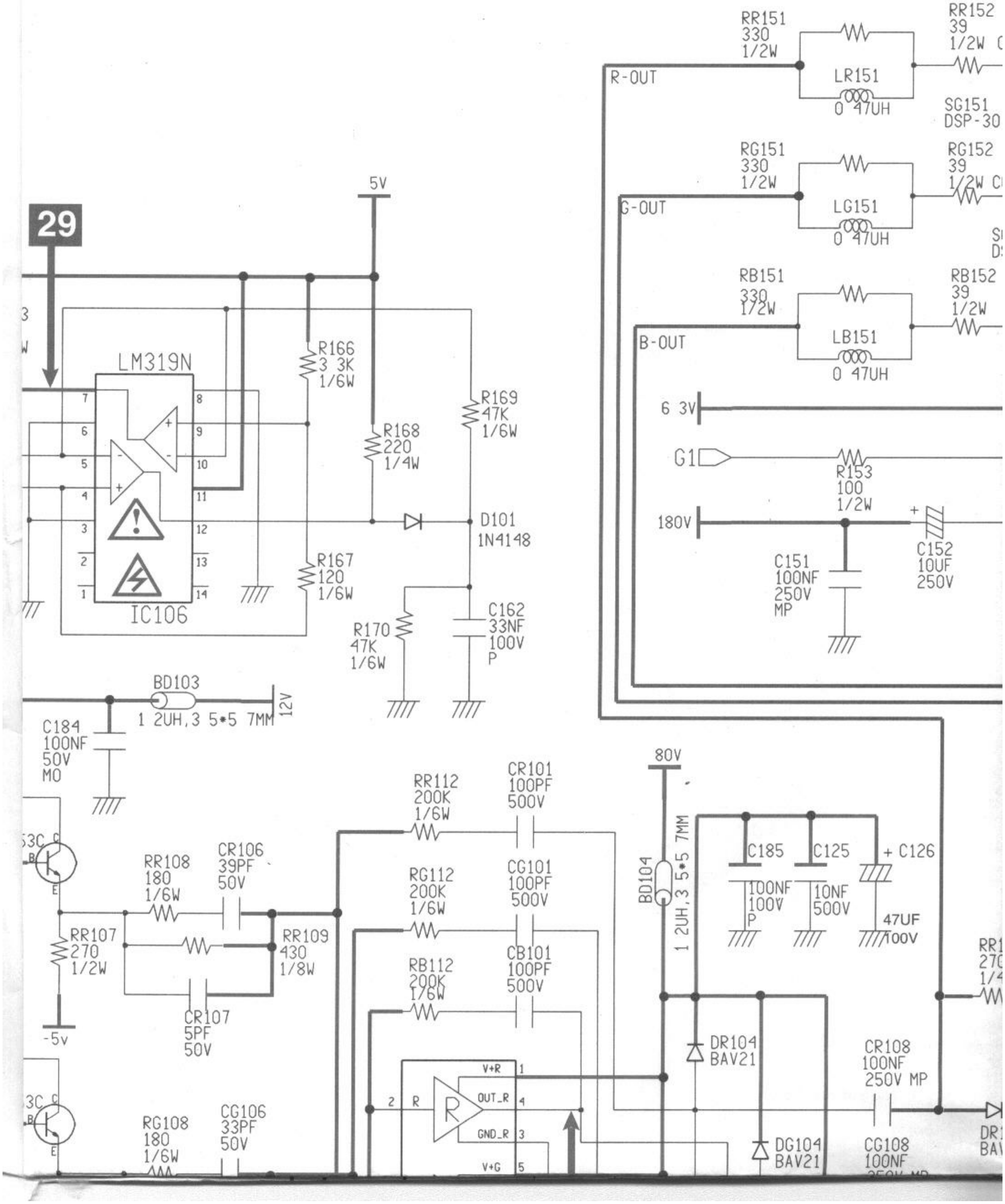
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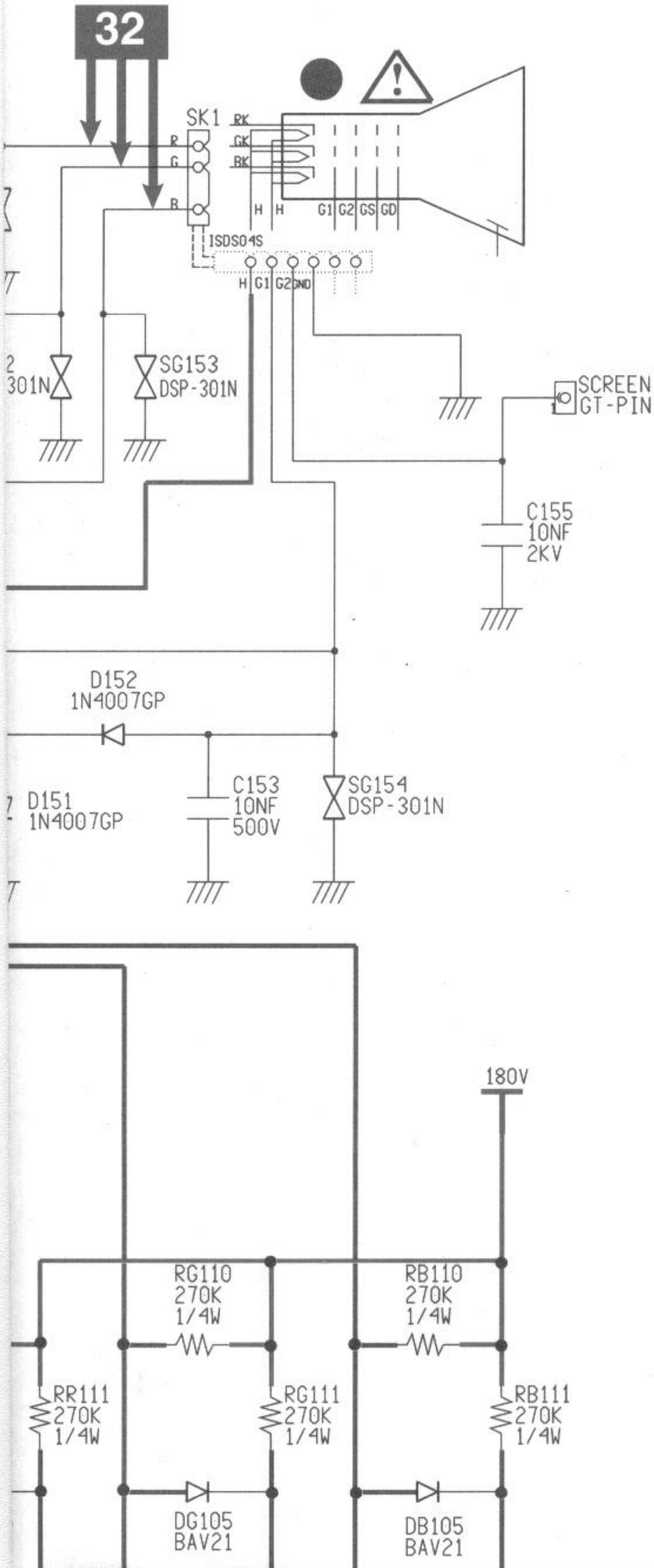


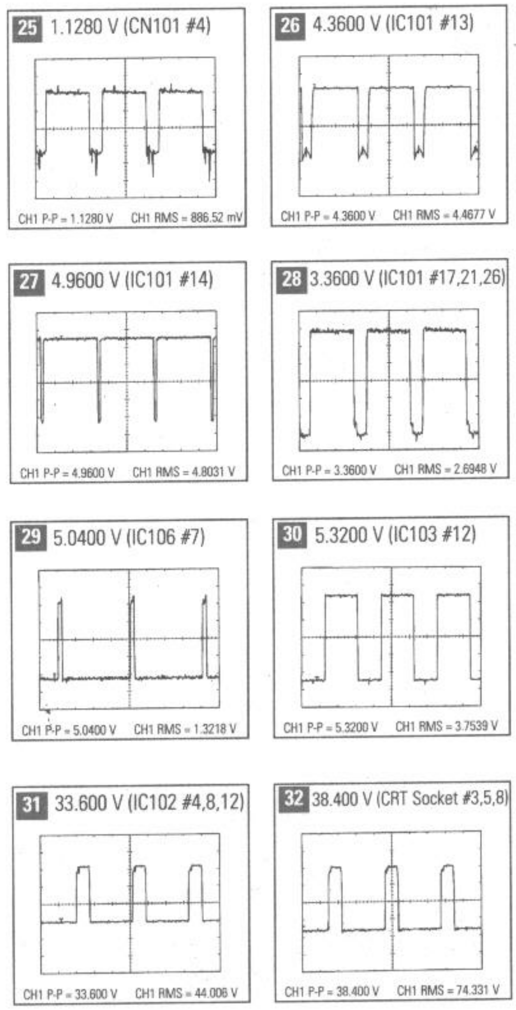


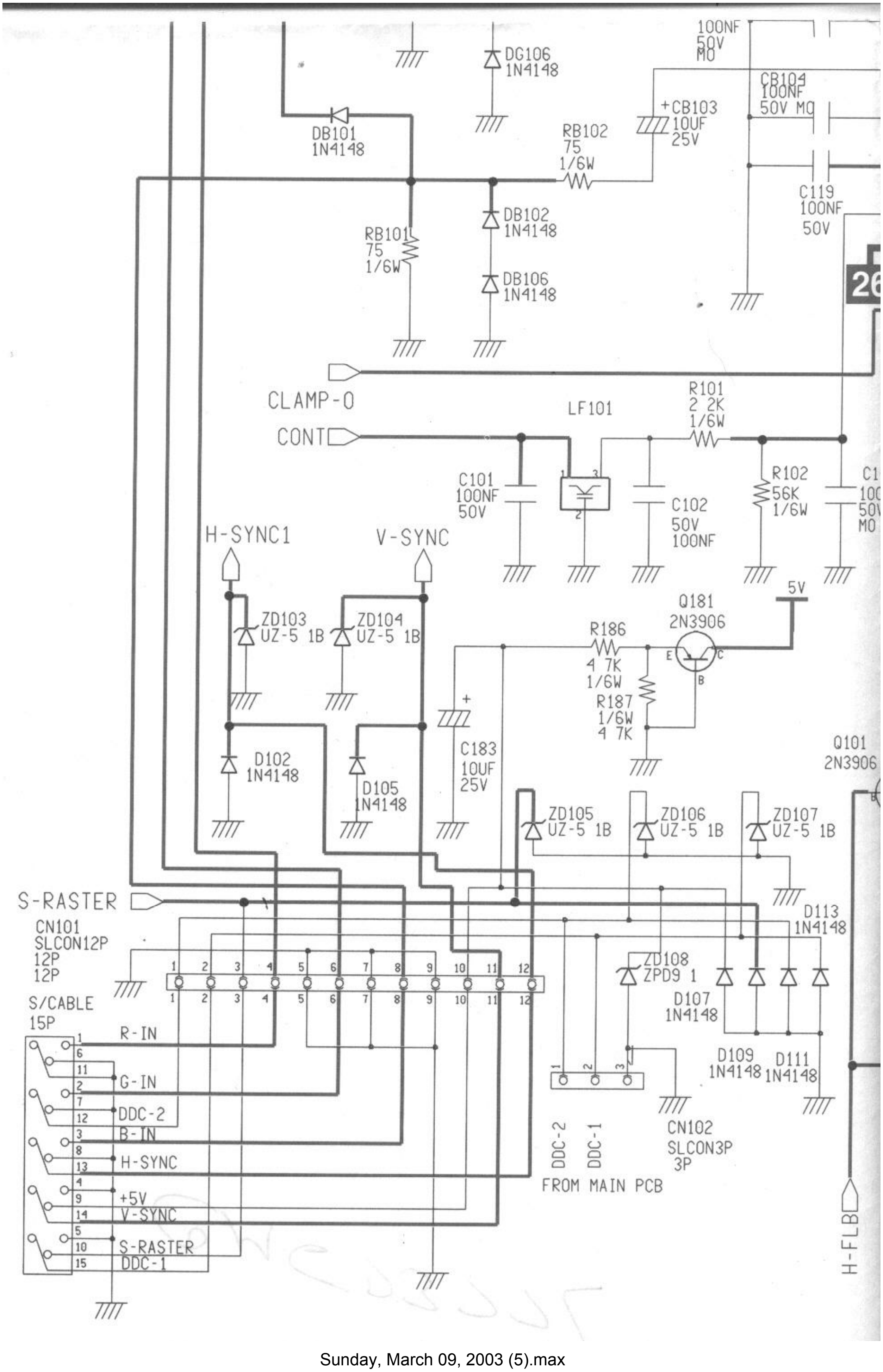
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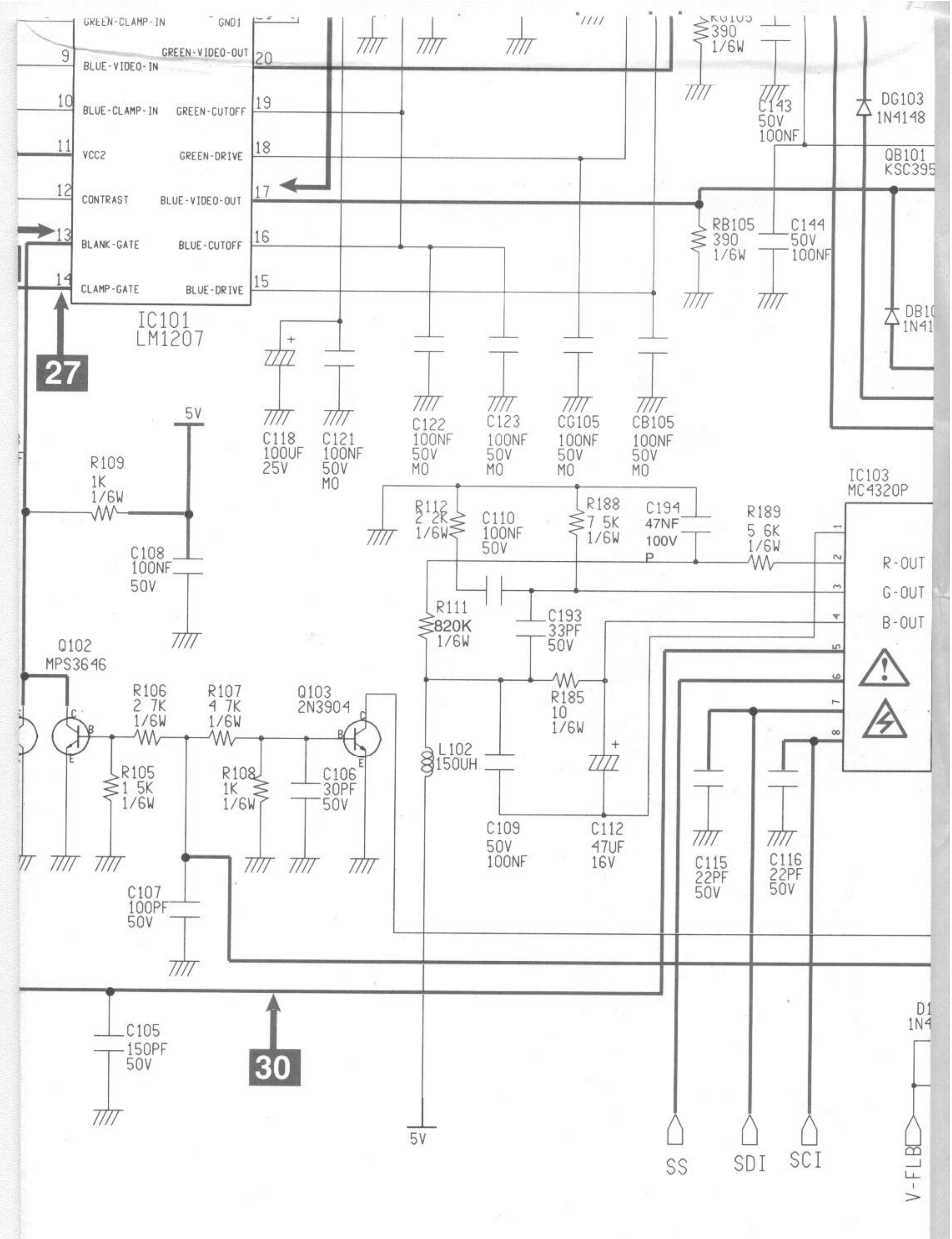

29
5V
LM319N
IC106
R166 3 3K 1/6W
R168 220 1/4W
R169 47K 1/6W
D101 1N4148
R167 120 1/6W
R170 47K 1/6W
C162 33NF 100V P
BD103 1 2UH,3 5*5 7MM
12V
C184 100NF 50V MO
RR151 330 1/2W
RR152 39 1/2W
R-OUT
LR151 0 47UH
SG151 DSP-30
RG151 330 1/2W
RG152 39 1/2W
G-OUT
LG151 0 47UH
RB151 330 1/2W
RB152 39 1/2W
B-OUT
LB151 0 47UH
6 3V
G1
R153 100 1/2W
180V
C151 100NF 250V MP
C152 10UF 250V
80V
RR112 200K 1/6W
CR101 100PF 500V
RG112 200K 1/6W
CG101 100PF 500V
RB112 200K 1/6W
CB101 100PF 500V
BD104 1 2UH,3 5*5 7MM
C185 100NF 100V P
C125 10NF 500V
C126 47UF 100V
RR108 180 1/6W
CR106 39PF 50V
RR109 430 1/8W
RR107 270 1/2W
CR107 5PF 50V
-5V
DR104 BAV21
DG104 BAV21
CR108 100NF 250V MP
CG108 100NF
RG108 180 1/6W
CG106 33PF 50V
V+R
OUT_R
GND_R
V+G
R

: Power Line
: Signal Line

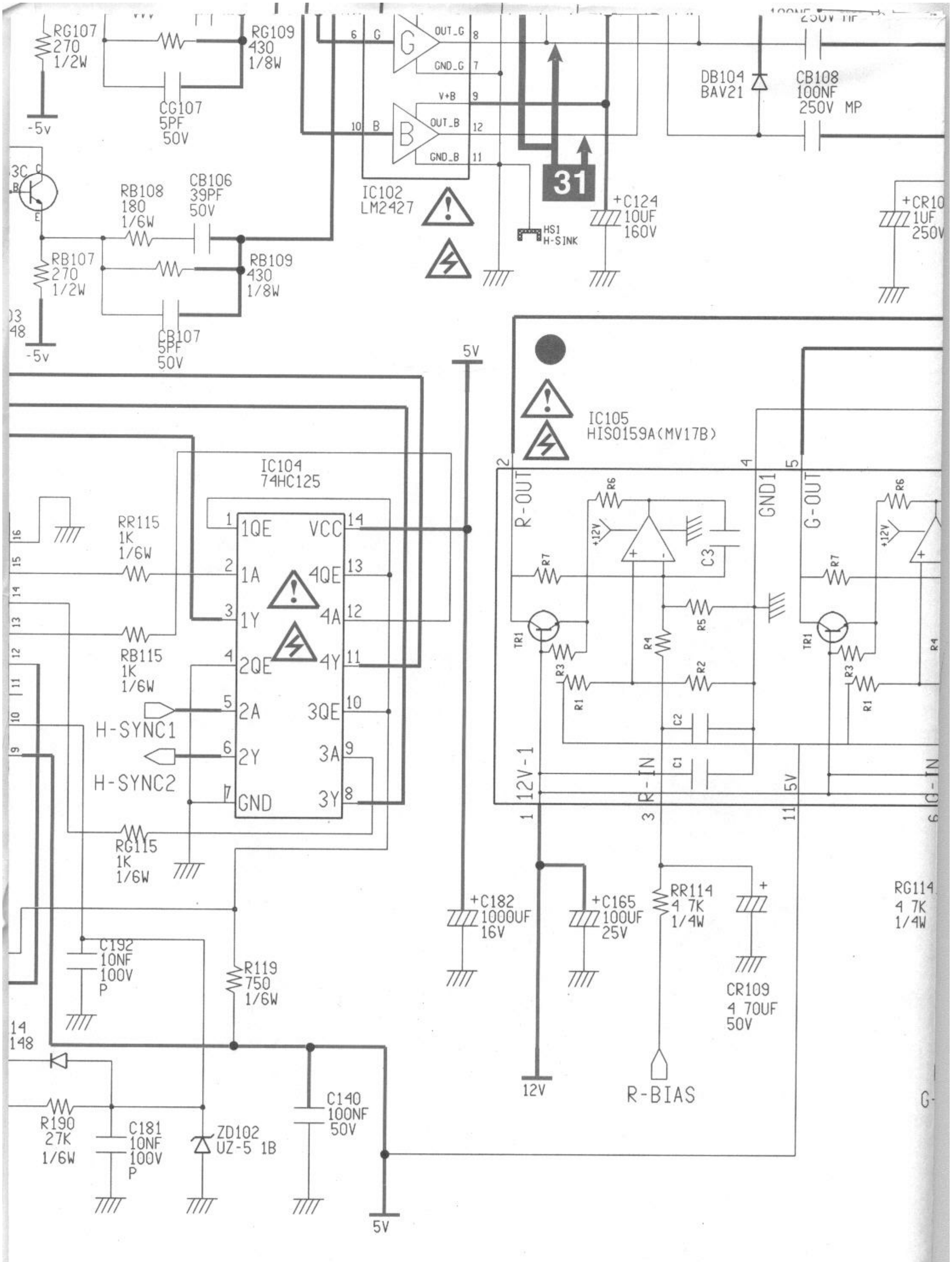


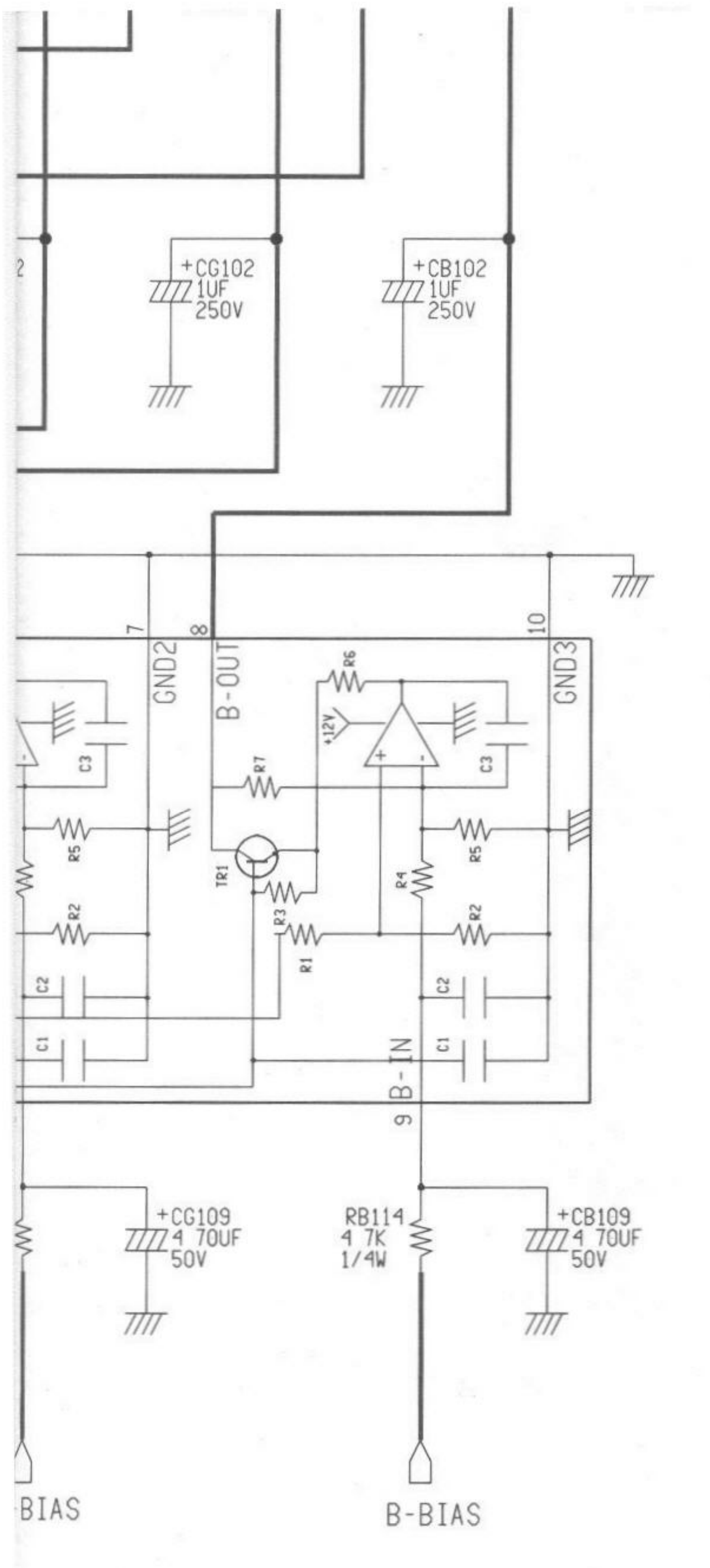



100NF
50V
MO
DG106
1N4148
CB104
100NF
50V MO
+CB103
10UF
25V
DB101
1N4148
RB102
75
1/6W
C119
100NF
50V
DB102
1N4148
RB101
75
1/6W
DB106
1N4148
26
CLAMP-O
LF101
R101
2.2K
1/6W
CONT
C101
100NF
50V
C102
50V
100NF
R102
56K
1/6W
H-SYNC1
V-SYNC
5V
Q181
2N3906
ZD103
UZ-5.1B
ZD104
UZ-5.1B
R186
4.7K
1/6W
R187
1/6W
4.7K
C183
10UF
25V
D102
1N4148
D105
1N4148
Q101
2N3906
ZD105
UZ-5.1B
ZD106
UZ-5.1B
ZD107
UZ-5.1B
S-RASTER
CN101
SLCON12P
12P
12P
D113
1N4148
ZD108
ZPD9.1
S/CABLE
15P
D107
1N4148
R-IN
G-IN
D109
1N4148
D111
1N4148
DDC-2
B-IN
H-SYNC
CN102
SLCON3P
3P
DDC-2
DDC-1
+5V
V-SYNC
FROM MAIN PCB
S-RASTER
DDC-1
H-FLB



GREEN-CLAMP-IN
GND1
9 BLUE-VIDEO-IN
GREEN-VIDEO-OUT 20
10 BLUE-CLAMP-IN
GREEN-CUTOFF 19
11 VCC2
GREEN-DRIVE 18
12 CONTRAST
BLUE-VIDEO-OUT 17
13 BLANK-GATE
BLUE-CUTOFF 16
14 CLAMP-GATE
BLUE-DRIVE 15
IC101
LM1207
27
5V
R109 1K 1/6W
C108 100NF 50V
C118 100UF 25V
C121 100NF 50V MO
C122 100NF 50V MO
C123 100NF 50V MO
CG105 100NF 50V MO
CB105 100NF 50V MO
RG105 390 1/6W
C143 50V 100NF
DG103 1N4148
QB101 KSC395
RB105 390 1/6W
C144 50V 100NF
DB10
1N41
IC103
MC4320P
R112 2 2K 1/6W
C110 100NF 50V
R188 7 5K 1/6W
C194 47NF 100V P
R189 5 6K 1/6W
R-OUT
G-OUT
B-OUT
R111 820K 1/6W
C193 33PF 50V
R185 10 1/6W
L102 150UH
C109 50V 100NF
C112 47UF 16V
C115 22PF 50V
C116 22PF 50V
Q102 MPS3646
R106 2 7K 1/6W
R107 4 7K 1/6W
Q103 2N3904
R105 1 5K 1/6W
R108 1K 1/6W
C106 30PF 50V
C107 100PF 50V
C105 150PF 50V
30
5V
SS
SDI
SCI
V-FLB
D1
1N4

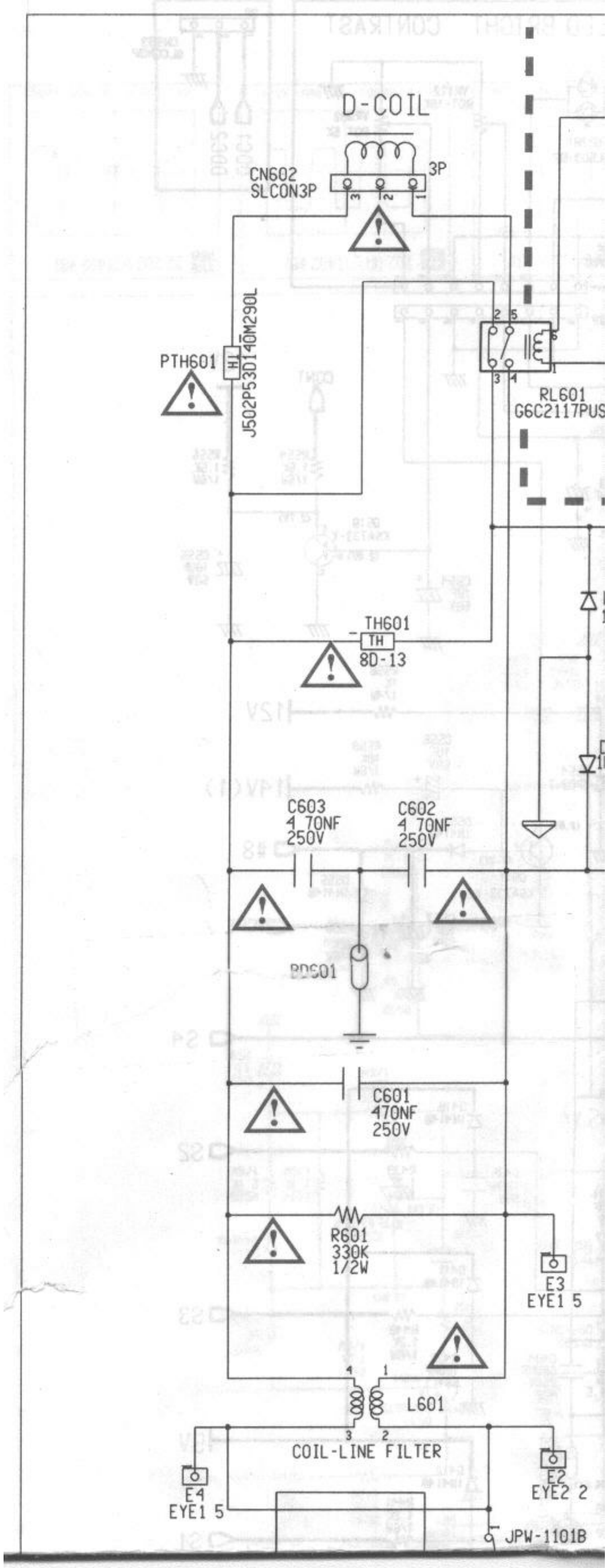

RG107
270
1/2W
-5v
RG109
430
1/8W
CG107
5PF
50V
RB108
180
1/6W
CB106
39PF
50V
RB107
270
1/2W
RB109
430
1/8W
CB107
5PF
50V
-5v
IC102
LM2427
OUT_G
GND_G
V+B
OUT_B
GND_B
31
HS1
H-SINK
+C124
10UF
160V
DB104
BAV21
CB108
100NF
250V MP
+CR10
1UF
250V
5V
IC104
74HC125
1QE
1A
1Y
2QE
2A
2Y
GND
VCC
4QE
4A
4Y
3QE
3A
3Y
RR115
1K
1/6W
RB115
1K
1/6W
H-SYNC1
H-SYNC2
RG115
1K
1/6W
IC105
HIS0159A(MV17B)
R-OUT
GND1
G-OUT
12V-1
R-IN
5V
G-IN
+C182
1000UF
16V
+C165
100UF
25V
RR114
4 7K
1/4W
CR109
4 70UF
50V
RG114
4 7K
1/4W
12V
R-BIAS
C192
10NF
100V
P
R119
750
1/6W
R190
27K
1/6W
C181
10NF
100V
P
ZD102
UZ-5 1B
C140
100NF
50V
5V



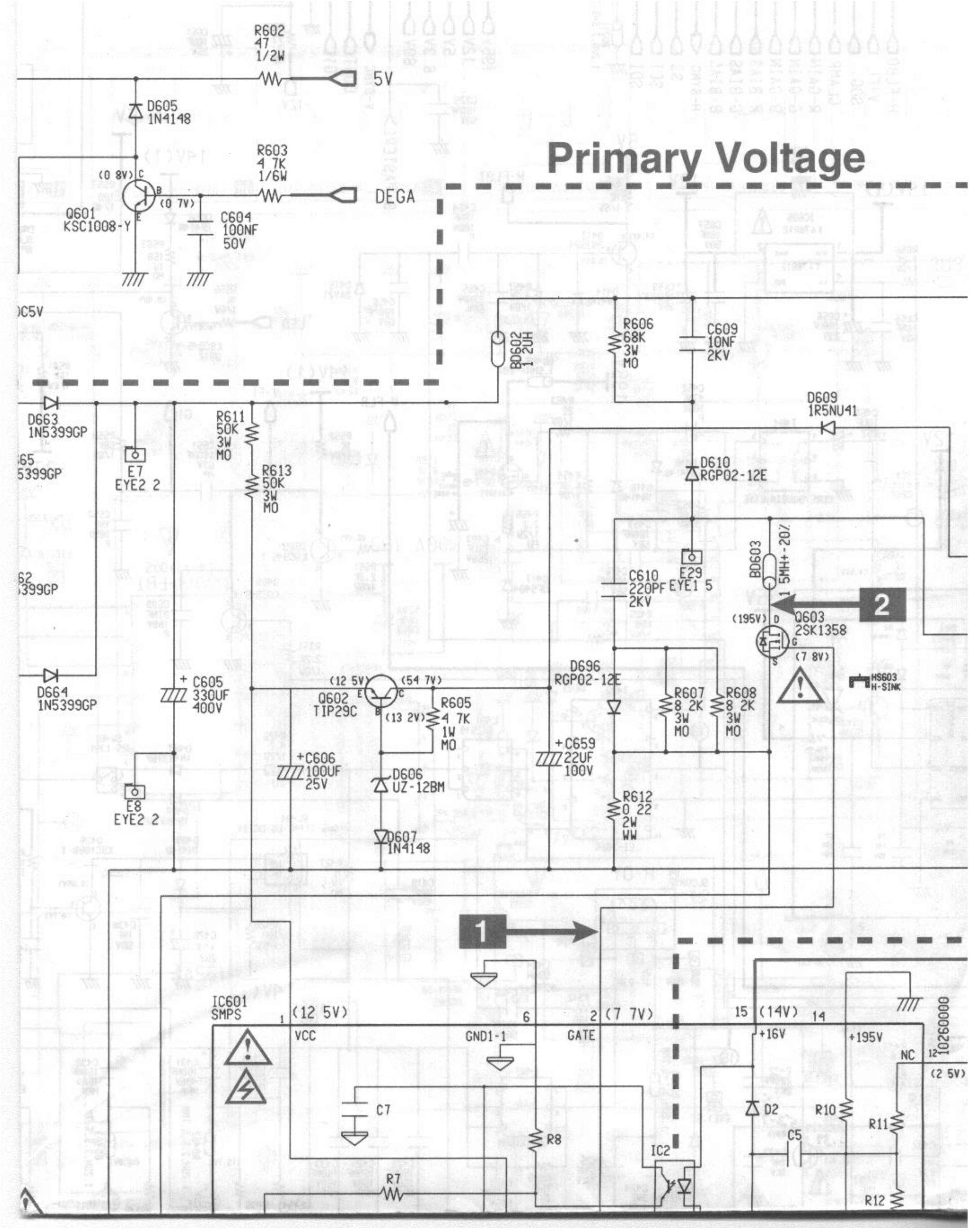
+CG102
1UF
250V
+CB102
1UF
250V
7
8
10
GND2
B-OUT
GND3
R6
+12V
C3
R7
R5
TR1
R4
R3
R2
R1
C2
C1
B-IN
9
+CG109
4 70UF
50V
RB114
4 7K
1/4W
+CB109
4 70UF
50V
BIAS
B-BIAS

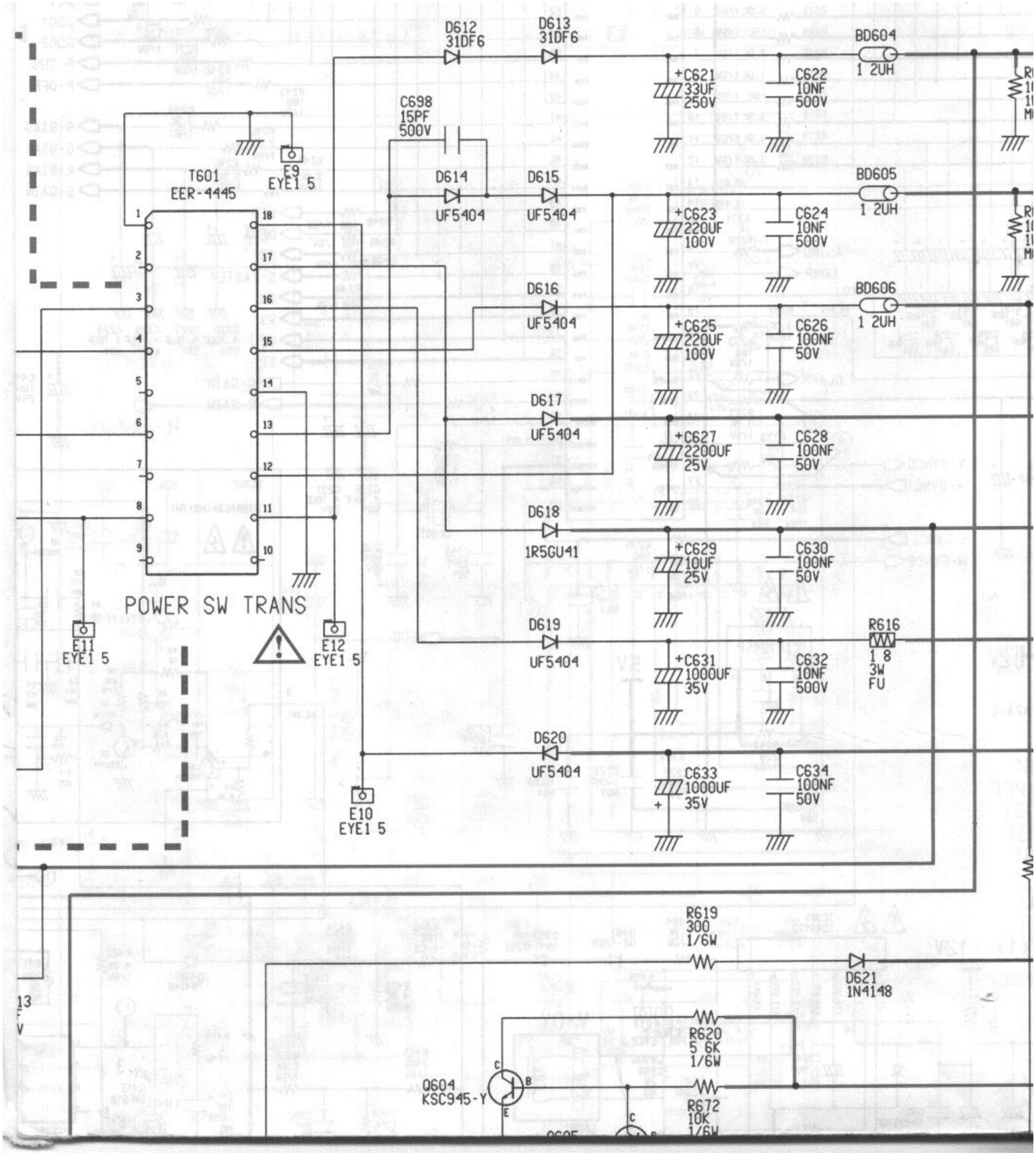
9-4 Schematic Diagram

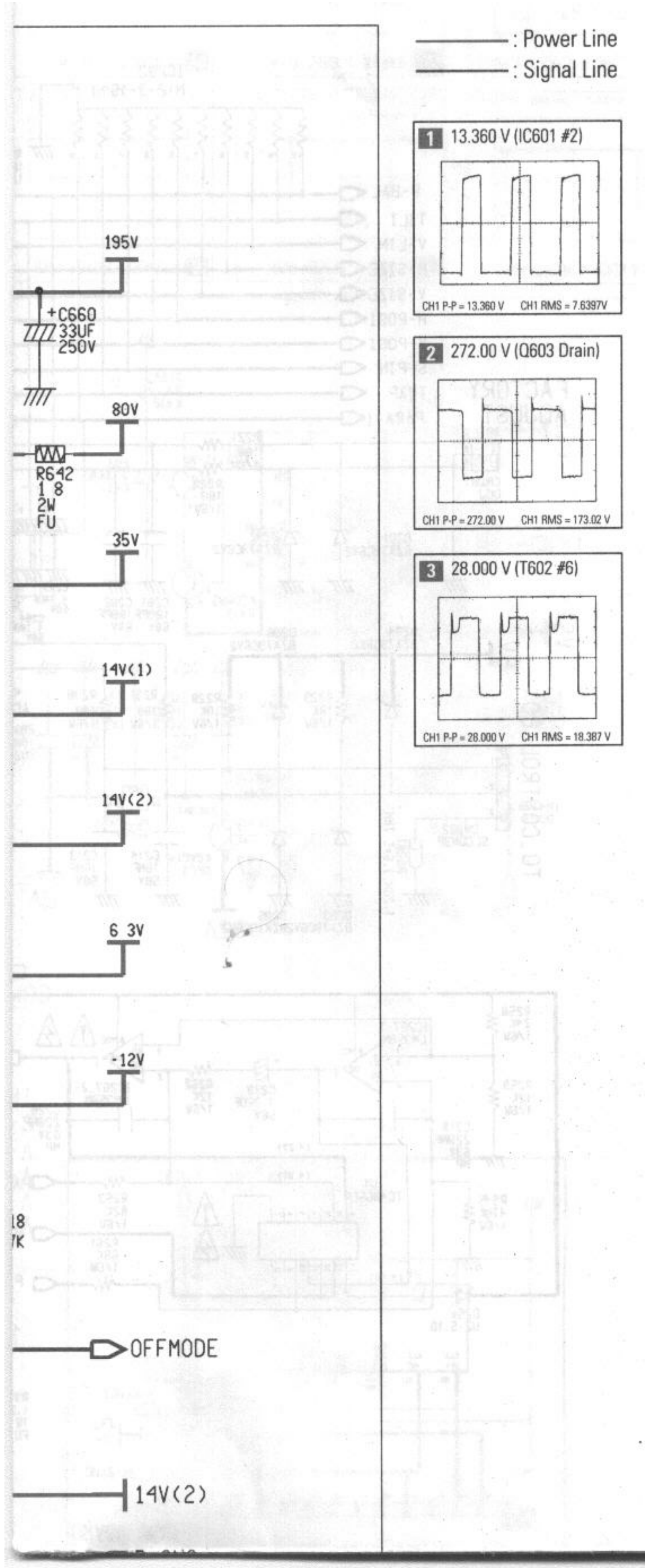
9-4-1 Power Schematic Diagram and Waveforms



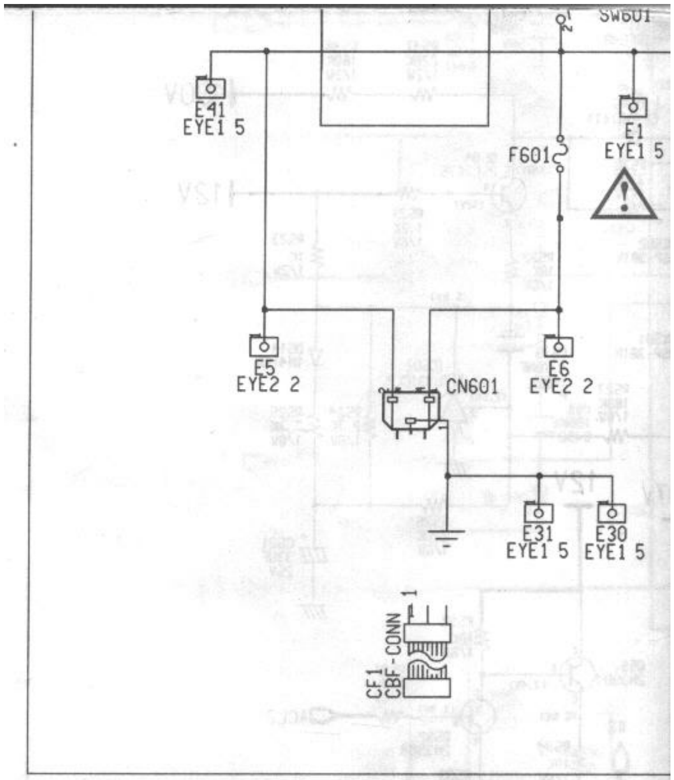
Primary Voltage



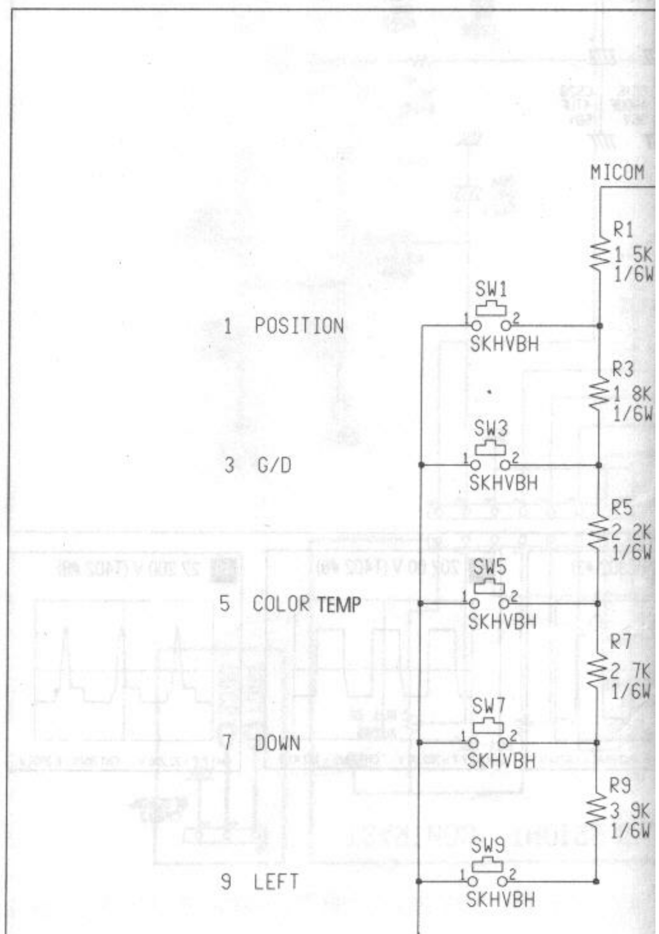

D612
31DF6
D613
31DF6
BD604
1 2UH
+C621
33UF
250V
C622
10NF
500V
C698
15PF
500V
T601
EER-4445
E9
EYE1 5
D614
UF5404
D615
UF5404
BD605
1 2UH
+C623
220UF
100V
C624
10NF
500V
D616
UF5404
BD606
1 2UH
+C625
220UF
100V
C626
100NF
50V
D617
UF5404
+C627
2200UF
25V
C628
100NF
50V
D618
1R5GU41
+C629
10UF
25V
C630
100NF
50V
POWER SW TRANS
E11
EYE1 5
E12
EYE1 5
D619
UF5404
+C631
1000UF
35V
C632
10NF
500V
R616
1 8
3W
FU
D620
UF5404
C633
1000UF
35V
C634
100NF
50V
E10
EYE1 5
R619
300
1/6W
D621
1N4148
R620
5 6K
1/6W
Q604
KSC945-Y
R672
10K
1/6W

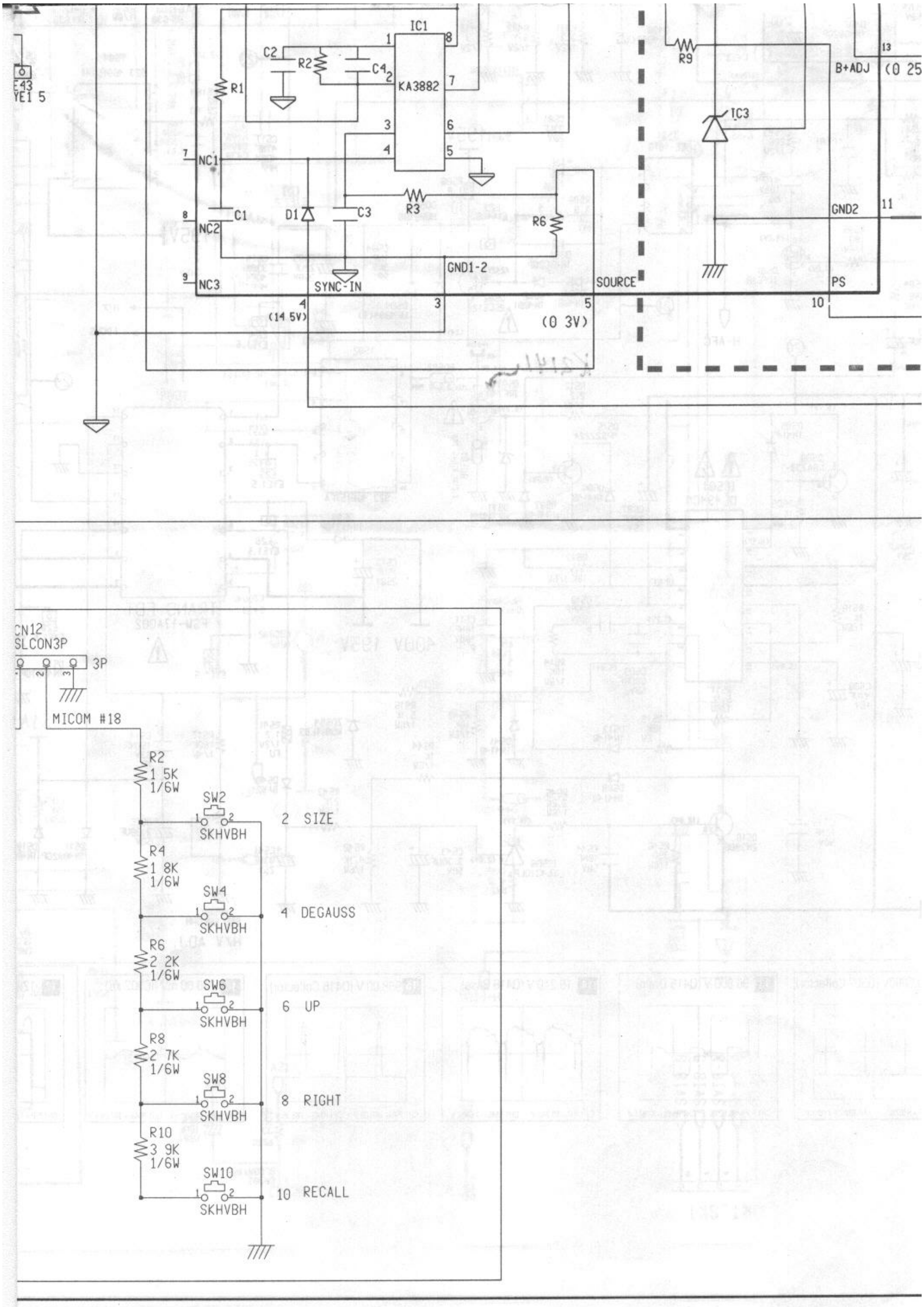


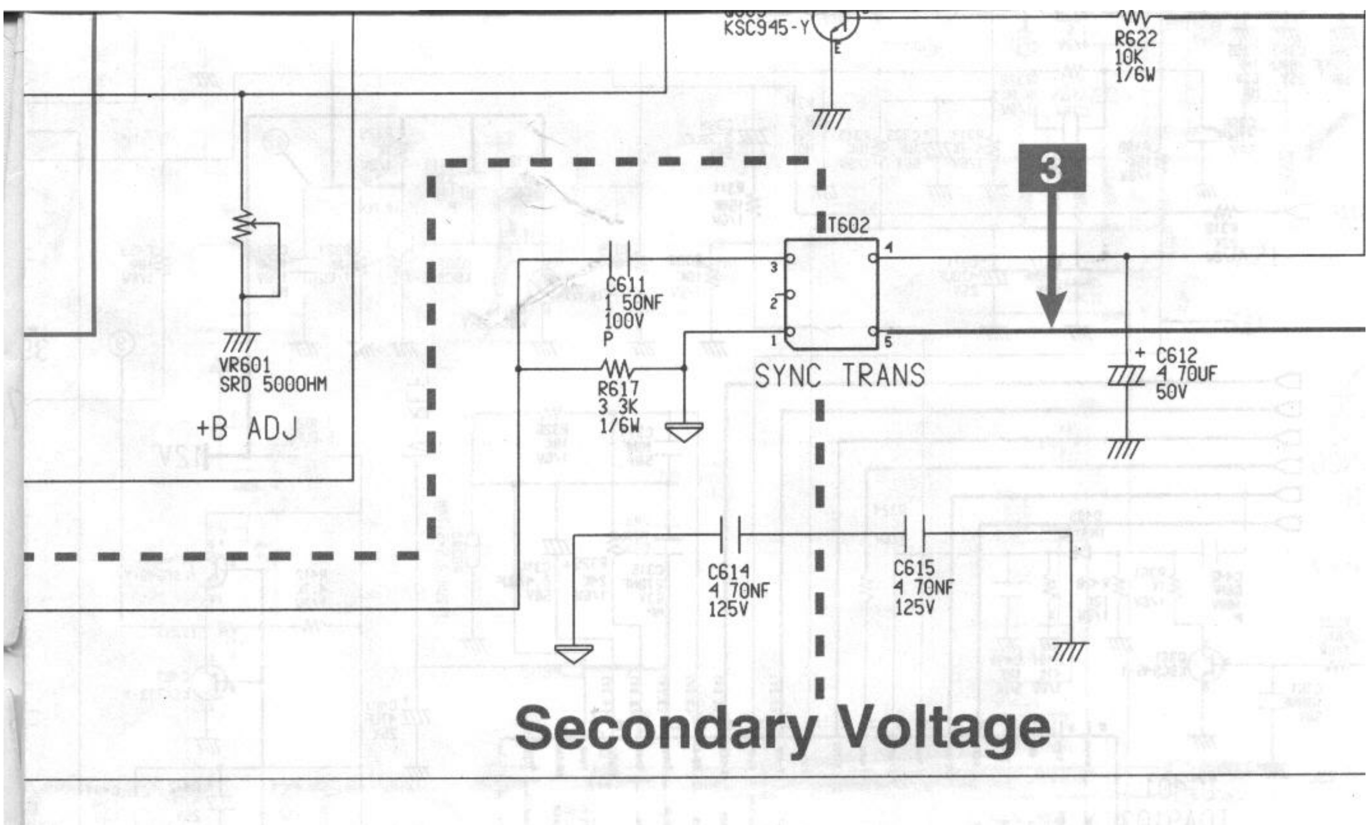
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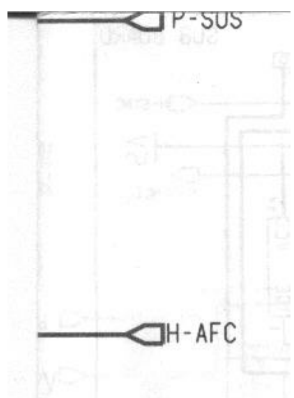
9-4-2 Control Panel Schematic Diagram




IC1
KA3882
C2
R2
C4
R1
NC1
NC2
NC3
C1
D1
C3
R3
R6
GND1-2
SYNC-IN
SOURCE
(14.5V)
(0.3V)
R9
IC3
B+ADJ
GND2
PS
CN12
SLCON3P
3P
MICOM #18
R2
1.5K
1/6W
SW2
SKHVBH
2 SIZE
R4
1.8K
1/6W
SW4
4 DEGAUSS
R6
2.2K
1/6W
SW6
6 UP
R8
2.7K
1/6W
SW8
8 RIGHT
R10
3.9K
1/6W
SW10
10 RECALL



Sunday, March 09, 2003 (15).max



Sunday, March 09, 2003 (16).max